

CRATE

BX-15 BASS AMPLIFIER



***OWNER'S MANUAL
MANUAL DEL PROPIETARIO
Mode d'Emploi***

CRATE[®] BX-15 Bass Amplifier

Congratulations!

You are now the proud owner of the compact but powerful Crate BX-15 Bass Amplifier, small in size but big in performance: the 8" Crate Custom speaker makes the most of the amplifier's 12 watts of musical output power. A 4-band rotary EQ and built-in Limiter circuit give you complete control over a wide variety of sounds. In addition, the front-panel headphone and external speaker jacks make this amplifier equally suited for private practicing as well as performing in intimate surroundings.






















Like all Crate products, your BX-15 is designed by musicians, and built using only the best components. Extensive testing insures you that this amplifier is the absolute best it can be.

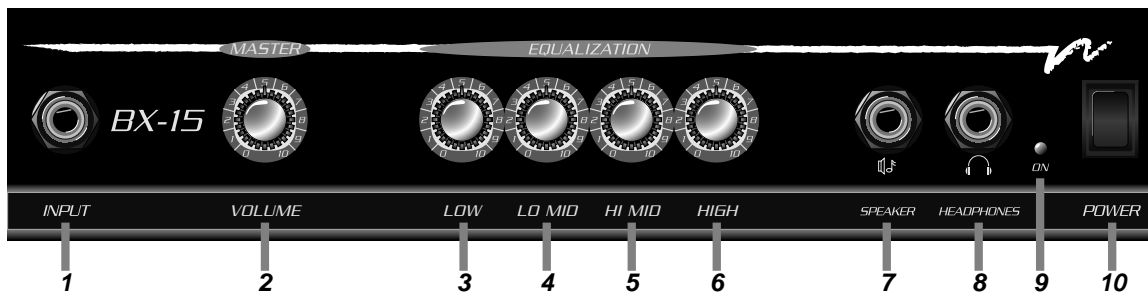
In order to get the most out of your new bass amp, we urge you to check out the information in this manual before you begin playing.

And **thank you** for choosing **CRATE[®]**

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 <p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p> <p>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	 <p>PRECAUCION RIESGO DE CORRIENTAZO NO ABRA</p> <p>PRECAUCION: PARA REDUCIR EL RIESGO DE INCENDIOS O DESCARGAS ELECTRICAS, NO PERMITA QUE ESTE APARATO QUEDE EXPUESTO A LA LLUVIA O LA HUMEDAD. PARA DISMINUIR EL RIESGO DE CORRIENTAZO, NO ABRA LA CUBIERTA. NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDA REPARAR DE JE TODO MANTENIMIENTO A LOS TECNICOS CALIFICADOS.</p>	 <p>ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR</p> <p>ATTENTION: PROTEGEZ CET APPAREIL DE LA PLUIE ET DE L'HUMIDITE AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION. POUR REDUIRE D'ELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE N'EST REPARABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.</p>															
<p align="center">IMPORTANT SAFETY INSTRUCTIONS</p> <ul style="list-style-type: none"> • READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS. • DO NOT OPERATE NEAR ANY HEAT SOURCE AND DO NOT BLOCK ANY VENTILATION OPENINGS ON THIS APPARATUS. FOR PROPER OPERATION, THIS UNIT REQUIRES 3" (75mm) OF WELL VENTILATED SPACE AROUND HEATSINKS AND OTHER AIR FLOW PROVISIONS IN THE CABINET. • DO NOT USE THIS APPARATUS NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS. • CLEAN ONLY WITH LINT-FREE DAMP CLOTH AND DO NOT USE CLEANING AGENTS. • ONLY CONNECT POWER CORD TO A POLARIZED, SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND FREQUENCY REQUIREMENTS STATED ON THE REAR PANEL OF THE APPARATUS. • PROTECT THE POWER CORD FROM DAMAGE DUE TO BEING WALKED ON, PINCHED, OR STRAINED. • UNPLUG THE APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME. • ONLY USE ATTACHMENTS, ACCESSORIES, STANDS, OR BRACKETS SPECIFIED BY THE MANUFACTURER FOR SAFE OPERATION AND TO AVOID INJURY. • THIS APPARATUS DOES NOT OPERATE NORMALLY AND REQUIRES SERVICE WITH ANY PHYSICAL DAMAGE FROM IMPACT OR ANY EXPOSURE TO MOISTURE. • SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL. • OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME. 																	
<table> <tr> <td>EXPLANATION OF GRAPHICAL SYMBOLS:</td> <td></td> <td>= "DANGEROUS VOLTAGE"</td> <td></td> <td>= "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL"</td> </tr> <tr> <td>EXPLICACION DE SIMBOLOS GRAFICOS:</td> <td></td> <td>= "VOLTAJE PELIGROSO"</td> <td></td> <td>= "ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES."</td> </tr> <tr> <td>EXPLICATION DES SYMBOLES GRAPHIQUES:</td> <td></td> <td>= "DANGER HAUTE TENSION"</td> <td></td> <td>= "REFERREZ-VOUS AU MANUAL D'UTILISATION"</td> </tr> </table>			EXPLANATION OF GRAPHICAL SYMBOLS:		= "DANGEROUS VOLTAGE"		= "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL"	EXPLICACION DE SIMBOLOS GRAFICOS:		= "VOLTAJE PELIGROSO"		= "ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES."	EXPLICATION DES SYMBOLES GRAPHIQUES:		= "DANGER HAUTE TENSION"		= "REFERREZ-VOUS AU MANUAL D'UTILISATION"
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FRONT PANEL – MASTER SECTION

1: INPUT: Use this 1/4" jack to connect your bass guitar to the amplifier by means of a shielded instrument cable.

2: VOLUME: Use this control to adjust the output level of the amplifier.

3: LOW: Use this control to adjust the bass response of the amplifier. Rotating the control counterclockwise reduces the low frequency output. Rotating the control clockwise increases the low frequency output. It may be necessary to reduce the Low frequency output at higher volume levels.

4: LOW MID: Use this control to adjust the "thickness" or "fatness" of the amplifier. Rotating the control counterclockwise reduces the lower midrange frequency output. Rotating the control clockwise increases the lower midrange frequency output.

5: HIGH MID: Use this control to adjust the clarity and definition of the string attack. Rotating the control counterclockwise reduces the upper midrange frequency output. Rotating the control clockwise increases the upper midrange frequency output.

6: HIGH: Use this control to adjust the high frequency response of the amplifier. Rotating the control counterclockwise reduces the high frequency output. Rotating the control clockwise increases the high frequency output.

7: EXTERNAL SPEAKER: Use this jack to connect the amplifier to an external speaker. The internal speaker is disconnected when this jack is used. The impedance of the external speaker must be 4 ohms or greater.

WARNING: Do not attempt to use headphones in the Speaker jack! Permanent hearing damage could result!

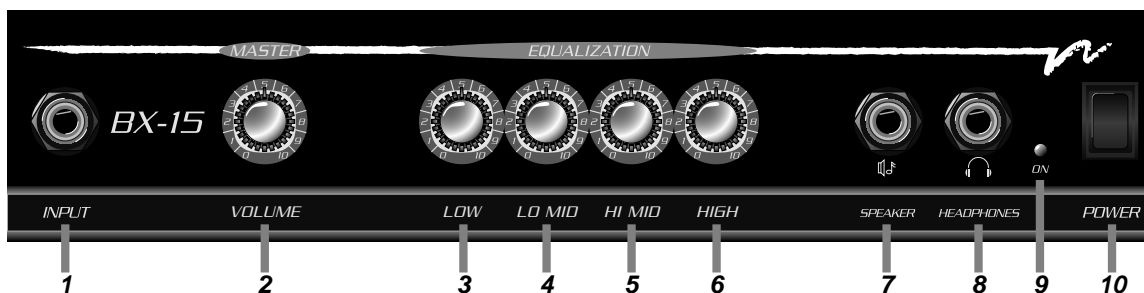
8: HEADPHONES: Use this jack to connect headphones to the amplifier. The internal speaker is disconnected when this jack is used. A line level signal can also be obtained from this jack for recording, etc.

CAUTION: To avoid possible damage to your hearing, so not use headphones for extended periods of time at extremely loud levels.

9: ON LED: This LED illuminates when the amplifier is turned on.

10: POWER: Use this switch to turn the amplifier on (top of the switch depressed) and off (bottom of the switch depressed).

11: POWER CORD (rear panel, not shown): The grounded power cord should only be plugged into a grounded power outlet that meets all applicable electrical codes and is compatible with the voltage, power, and frequency requirements stated on the rear panel. **Do not attempt to defeat the safety ground connection.**



PANEL DELANTERO - SECCION MAESTRA

1. El jack de **ENTRADA (INPUT)** acepta una clavija telefónica estándar y es adecuado para cualquier fuente de señal de nivel bajo ó de línea.

2. La perilla de **VOLUMEN (VOLUME)** controla el nivel de sonido global.

ECUALIZACION Y SALIDA

3. La perilla de **BAJOS (LOW)** ajusta el rango de bajos en el amplificador. Este control permite un rango total de 15 Decibels de incremento ó corte a 60 Hertz. Usted quizá "disminuir" el bajo a volúmenes altos.

4. El control de **MEDIOS BAJOS (LOW MID)** tiende a impartirle una característica más "gruesa" ó "llena" al sonido. Este control permite un rango total de 18 Decibels de incremento ó corte a 630 Hertz.

5. El control de **MEDIOS AGUDOS (HIGH MID)** permite un rango total de 19 Decibels de incremento ó corte a 2 Kilohertz.

6. El control de **AGUDOS (HIGH)** controla el rango superior de frecuencias y añade brillantez (al sonido). Este control permite un rango total de 27 Decibels de incremento ó corte a 10 Kilohertz.

7. El jack para **BOCINAS EXTERNAS (EXTERNAL SPEAKERS)** sirve para conectar una bocina a la unidad.

CUIDADO: ¡No intente utilizar audífonos en el conector de la bocina! Puede el oído resultar dañado permanentemente.

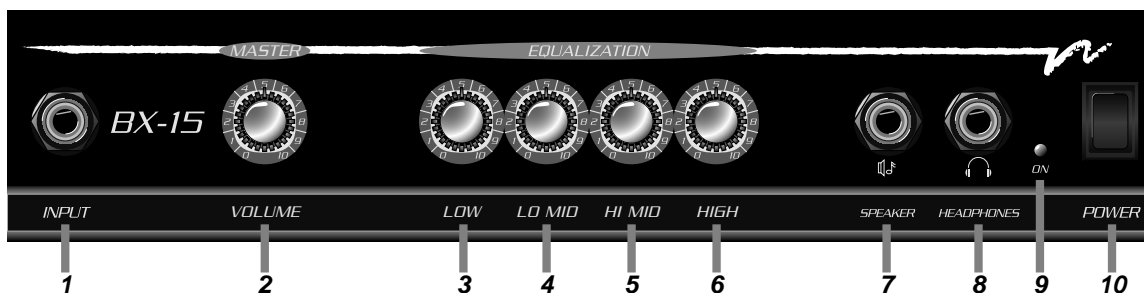
8. El jack de salida para **AUDÍFONOS Y LÍNEA (HEADPHONE)** aceptará una clavija estándar de audífonos para ensayar en privado. La bocina (altoparlante) se desconecta en forma automática cuando se enchufan audífonos en este lugar. También se puede obtener de este jack una señal de nivel de línea para grabaciones, etc.

9. El **INDICADOR LED DE ENERGÍA "ENCENDIDA" (POWER "ON" INDICATOR LED)** se encenderá cuando la unidad está prendida.

10. El interruptor de **ENERGÍA (POWER)** sirve para prender ó apagar el suministro de corriente alterna.

PANEL POSTERIOR

14: CABLE DE ENERGÍA: (POWER CORD): (Panel trasero, no se muestra) Este cable de energía, de tres alambres de uso pesado con tierra se debe conectar **SOLAMENTE** a una conexión de energía de 60 ciclos de Corriente Alterna, a 120 Volts con tierra y cableada de forma que no presente ningún peligro. ¡NO INTENTE eliminar la conexión de tierra en este cable! Si su BX-15 fue adquirido fuera de los Estados Unidos vea la parte posterior de la unidad para las especificaciones de energía y siga las instrucciones arriba mencionadas.



FACE AVANT – SECTION PRINCIPAL

1. PRISE POUR INSTRUMENT (INPUT) accepte une fiche de 1/4" (.635 cm) et elle est convenable pour aucune source de signal.

2. RÉGLAGE DE VOLUME (VOLUME) contrôle le niveau de son global.

EGALISATION ET SORTIE

3. BAS (LOW) règle la gamme des sons graves de l'amplificateur. Le réglage permet une plage totale de 15 dB d'augmentation ou une coupe à 60 Hz. Diminuer les sons graves aux hauts niveaux de volume.

4. BAS-MOYEN (LOW MID) tend à ajouter une caractéristique plus «épais» ou plus «plat» au son. Le réglage permet une plage totale de 18 dB d'augmentation ou une coupe à 630 Hz.

5. HAUT-MOYEN (HIGH MID) permet une plage totale de 19 dB d'augmentation ou une coupe à 2 kHz.

6. HAUT (HIGH) contrôle la gamme des hautes fréquences et ajoute la clarté. Le réglage permet une plage totale de 27 dB d'augmentation ou une coupe à 10 kHz.

7. PRISE POUR ENCEINTE AUXILIAIRE (SPEAKER) pour lier un haut-parleur à l'appareil.

AVERTISSEMENT: N'essayez pas à utiliser un casque d'écoute avec la prise pour un haut-parleur supplémentaire. La surdité permanent peut résulter.

8. PRISE POUR CASQUE D'ÉCOUTE (HEADPHONE) accepte une fiche de casque standard pour la pratique privée. L'haut-parleur se débraye automatiquement quand la fiche de casque se met ici. On peut aussi obtenir un signal auxiliaire de cette prise pour l'enregistrement, etc.

9. VOYANT LUMINEUX «ON» (POWER ON INDICATOR LED) est illuminé quand l'appareil marche.

10. COMMANDE MARCHE-ARRÊT (POWER) contrôle le pouvoir CA.

FACE DERRIERE

14. CORDON SECTEUR (POWER CORD): (Face arriere, pas montré) Ce cordon de trois fils à la masse doit être branché seulement sur une prise de courant raccordée à la terre. de 120 volt, 60 cycle CA. N'essayez jamais de supprimer la broche correspondant à la terre. Si le BX-15 a été acheté en dehors des États-Unis, voir la face arriere pour son régime de puissance et suivre les instructions en-dessus.



SUGGESTED STARTING SETTINGS:

ROCK:



JAZZ:



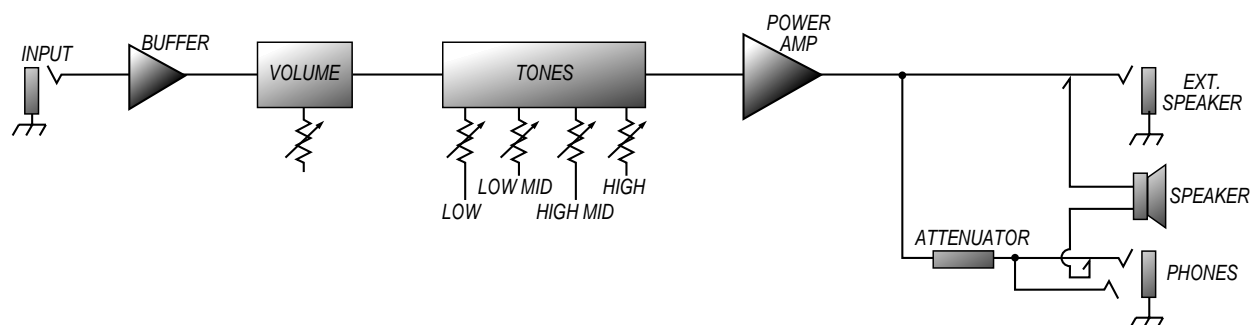
COUNTRY:



FUNK:



SYSTEM BLOCK DIAGRAM:



CRATE[®] BX-15 Bass Amplifier

BX-15 TECHNICAL SPECIFICATIONS:

Output Power Rating	12 watts RMS @ 5% THD 4 ohms, 120 VAC
Maximum Input Signal Level Accepted	15 volts, peak-to-peak
Input Impedance	25k ohms
Signal to Noise Ratio	72dB
Low Control	15dB Range @ 60Hz
Low Mid Control	18dB Range @ 630Hz
High Mid Control	19dB Range @ 2kHz
High Control	27dB Range @ 10kHz
Input Power Requirements	120 VAC, 60Hz, 30VA 100/110VAC, 50/60Hz, 30VA 230VAC, 50/60Hz, 30VA
Speaker Size and Rating	Crate Custom Design 8", 15 watts
Cabinet Size and Weight	13.25" H x 13.125" W x 9" D, 18.5 lbs.

The BX-15 is covered with a durable black Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

El BX-15 esta cubierto con un material durable Tolex: limpielo con una toalla seca. Nunca rocíe el gabinete con sustancias limpiadoras. Evite usar materiales abrasivos con los cuales pueda danar el acabado.

Le BX-15 est couvert avec «Tolex» un revêtement noir et durable. Essuyez cette matière avec une toile propre et sans charpie. Ne pulvérisiez jamais les agents de nettoyage sur l'appareil. Évitez les nettoyeurs abrasifs qui peuvent endommager le «Tolex.»

Declaration Of Conformity

#27, Effective 01-01-2001

Manufacturer's Name: SLM Electronics
Production Facility: 11880 Borman Drive, St. Louis, MO 63146, USA
Production Facility: 700 Hwy 202 W, Yellville, AR 72687, USA
Shipping Facility: 1400 Ferguson Ave., St. Louis, MO 63133, USA
Office Facility: 1400 Ferguson Ave., St. Louis, MO 63133, USA

Product Type: Audio Amplifier

Complies with Standards:
LVD: 92/31/EEC, 93/68/EEC, & 73/23/EWG
Safety: EN60065
EMC: EN55013, EN55020, EN55022, EN61000-3-2, & EN61000-3-3

Supplementary information provided by:
SLM Electronics - R & D Engineering
1901 Congressional Drive, St Louis, MO 63146, USA
Tel.: 314-569-0141, Fax: 314-569-0175

Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this Crate manual are subject to change without notice.

Crate continuamente desarrolla nuevos productos, así como también mejora los existentes. Por esta razón, las especificaciones e información incluidos en este manual están sujetos a cambios sin previo aviso

Crate développe continuellement des nouveaux produits, ainsi d'améliorer ceux qui existe. Pour cette raison les spécifications et les informations dans ce manuel peuvent se changer sans préavis.

CRATE[®]

www.crateamps.com



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